

INTERNATIONAL SEARCH REPORT

IB2004/052114

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02M3/07

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H02M H03L G11C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 026 002 A (VIEHMANN HANS-HEINRICH) 15 February 2000 (2000-02-15) abstract; claim 1; figure 3	1-8
A	SOLDERA J ET AL: "A low ripple fully integrated charge pump regulator" PROCEEDINGS 16TH SYMPOSIUM ON INTEGRATED CIRCUITS AND SYSTEMS DESIGN. SBCCI 2003, 8 September 2003 (2003-09-08), pages 177-180, XP010658516 LOS ALAMITOS - USA paragraph '0003!; figure 7	1-8
A	US 5 532 653 A (ADKINS KENNETH C) 2 July 1996 (1996-07-02) column 5, line 10 - column 5, line 34 ----- -/--	1-8

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

12 January 2005

Date of mailing of the international search report

24/01/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 808 506 A (TRAN HIEU VAN) 15 September 1998 (1998-09-15) cited in the application the whole document . -----	1-8

INTERNATIONAL SEARCH REPORT

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6026002	A	15-02-2000	DE 19612443 A1	02-10-1997
			AT 252781 T	15-11-2003
			BR 9708371 A	03-08-1999
			CN 1214810 A ,B	21-04-1999
			WO 9737424 A1	09-10-1997
			DE 59710890 D1	27-11-2003
			EP 0890215 A1	13-01-1999
			ES 2210520 T3	01-07-2004
			JP 11508120 T	13-07-1999
			KR 2000004953 A	25-01-2000
			RU 2182742 C2	20-05-2002
US 5532653	A	02-07-1996	NONE	
US 5808506	A	15-09-1998	CA 2216891 A1	01-04-1998
			EP 1081835 A2	07-03-2001
			EP 0834981 A2	08-04-1998
			JP 10199282 A	31-07-1998